

84-#660 - 12935

COMINCO LTD.

EXPLORATION
NTS: 82F/10E

WESTERN DISTRICT
August 3, 1984

ASSESSMENT REPORT
PERCUSSION DRILLING
BAKER MINERAL CLAIMS
CRAWFORD BAY AREA
FORT STEELE MINING DIVISION B.C.

LATITUDE: 49°35'N LONGITUDE: 116°39'W

WORK PERIOD: July 9 - July 14, 1984

on Baker 1 and Fr. Mineral Claims

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

REPORT BY:

12,935

R.L. WRIGHT

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PERCUSSION DRILLING ASSESSMENT REPORT
BAKER MINERAL CLAIMS
FORT STEELE MINING DIVISION, B.C.

SUMMARY

A percussion drilling program was carried out in 1984 on the Baker claims, 16 kilometres southeast of Crawford Bay, B.C. The work consisted of 4 holes totalling 341.4 metres. The cuttings from these holes were split in 10 foot intervals and analyzed geochemically for molybdenum and tungsten. One hole was also analyzed for lead, zinc, silver and gold.

Results show interesting but low values for Mo and generally low values for W, Pb, Zn, Ag and Au.

LOCATION

The Baker mineral claims are located in the Fort Steele Mining Division, 16 kilometres southeast of Crawford Bay, B.C. The property covers the headwaters of Baker Creek which drains northeastward into Redding Creek. Access to the property is by logging road from Kimberley via Redding Creek and St. Mary's River, or by the powerline road east from Crawford Bay. Elevation ranges from 1650 to 2300 metres, with heavy forest up to about 2000 metres.

HISTORY

- 1978 - GSC Open File 514 indicated anomalous Mo value in silts from Baker Creek; property staked by Cominco Ltd.
- 1979 - Geological mapping (1:5,000) and soil geochemistry.
- 1980 - Diamond drilling (5 holes) totalling 1005 metres.
- 1983 - Percussion drilling (4 holes) totalling 286.5 m.

WORK DONE IN 1984

Four percussion holes totalling 341.4 metres, were drilled by Al Miller Percussion Drilling Ltd. of Kamloops, B.C. during the period July 9 and July 14, 1984. Percussion cuttings were collected by G. Allen and R. Wright and microscopic examination done by P. Nieweglowski. All samples were analyzed for Mo and W and some were analyzed for Pb, Zn, Au, Ag in Cominco's Exploration Research Laboratory in Vancouver.

OWNERSHIP

Seven claims comprising 84 units constitute the Baker Creek property, which is owned 100% by Cominco Ltd.

<u>Claim</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Recorded</u>	<u>Due Date</u>
Baker 1	20	521	July 31, 1978	July 31, 1984
Baker 2	18	522	July 31, 1978	July 31, 1984
Baker 3	10	523	July 31, 1978	July 31, 1984
Baker 4	15	575	Oct. 20, 1978	Oct. 20, 1986
Baker 5	12	1074	Sept.18, 1980	Sept.18, 1985
Baker 6	8	1075	Sept.18, 1980	Sept.18, 1984
Baker Fr.	1	1073	Sept.18, 1980	Sept.18, 1986

GEOLOGY

The claims are underlain by sedimentary rocks of upper Proterozoic age. A homoclinal north-south trending sequence of sediments, including the Kitchener-Siyeh, Dutch Creek and Mount Nelson Formations of Purcell Age are unconformably overlain to the west by the Toby and Horsethief Creek Formations of Windermere Age.

The Purcell rocks consist of quartzites, phyllites, argillites, dolomites and minor amphibolites. These rocks cannot generally be correlated over more than a few hundred metres due to structural complications or sedimentary facies variations. To the west, the Windermere rocks consist of a basal conglomerate unit overlain by quartzite and black argillite. A small intrusion of quartz monzonite outcrops in the centre of the Baker 1 claim.

PURPOSE OF DRILLING PROGRAM

The percussion drilling program on the Baker mineral claims was initiated in 1983 and continued in 1984 to test the covered low area between two Mo-W soil geochemical anomalies for molybdenum and/or tungsten mineralization, and to determine the depth of overburden.

INTERPRETATION OF 1984 DRILL RESULTS

Drilling in 1984 has shown the presence of lithologies consisting of light grey phyllite, fine-grained quartzite and calcareous metasediments (skarn).

Mineralization consists mainly of pyrite and occurs throughout all of the drill holes. Grades in these rocks are low but persistent, averaging less than 100 ppm Mo and less than 200 ppm W. The overburden varies from 7.6 metres to 22.9 metres deep.

CONCLUSIONS

The 1984 diamond drilling program on the Baker mineral claims has succeeded in identifying minor molybdenum and tungsten on the valley bottom. These occur together with disseminated pyrite, in quartzites, phyllites and skarn. No intrusive rocks were identified in the percussion cuttings. More drilling and testing are required to determine whether portions of this mineralized zone could be of economic grade and size.

Report by:

R.L. Wright.
R.L. Wright
Geologist III

Endorsed by:

W. J. Wolfe
W.J. Wolfe
Assistant Manager
Exploration
Western District

Approved for
Release by:

W. J. Wolfe for
G. Harden
Manager, Exploration
Western District

RLW/
Distribution
Mining Recorder (2)
Western District File
RLW

PERCUSSION DRILL LOGS

BAKER CREEK

Logged by P. Nieweglowski and R. Wright.

Hole: PDH 84-1
Length: 91.4 m
Grid Location: 1600 S 200 W

<u>Interval (m)</u>	<u>Rock</u>	<u>Description</u>
0 - 7.6	Overburden	
7.6 - 91.4	Quartzite	Very fine-grained, weak to moderately phyllitic rock, consisting of: quartz (70-95%), biotite (5-15%), muscovite (5-15%), chlorite (2-7%), magnetite (trace), graphite (trace). <u>Mineralization:</u> Pyrite - large cubic aggregates, disseminated (trace-3%); occurs in intervals: 15.2-18.3; 39.6-45.7; 64.0-70.1 - pervasive oxidation of pyrite extends to 50 metres depth. Molybdenite - occurs in veins and fractures within pure quartz fragments (trace-1%); occurs in intervals: 15.2-18.3; 39.6-45.7; sphalerite (trace) occurs between 15.2-21.3.

Hole: PDH 84-2
Length: 85.3 m
Grid Location: 1200 S 150 W

<u>Interval (m)</u>	<u>Rock</u>	<u>Description</u>
0 - 16.2	Overburden	
16.2 - 27.4	Skarn?	Fine-grained, weakly phyllitic rock, consisting of quartz (40-50%), biotite and muscovite (20-30%), pyroxene (5-10%), amphibole-hornblende? (1-3%), chlorite (5-10%), calcite (<1%). <u>Mineralization:</u> Pyrite - small aggregates (1-2%).
27.4 - 39.6	Quartzite	Fine-grained, weak to moderately phyllitic rock consisting of: quartz (80-95%), biotite (5-10%), muscovite (5-10%), chlorite (2-5%), magnetite (trace). <u>Mineralization:</u> Pyrite - small cubic aggregates, disseminated throughout fragments (1-3%).

Hole: PDH 84-2
Length: 85.3 m
Grid Location: 1200 S 150 W

<u>Interval (m)</u>	<u>Rock</u>	<u>Description</u>
39.6 - 45.7	Skarn	Same as 16.2 - 27.4
45.7 - 85.3	Quartzite	Same description as 27.4 - 39.6 with increased pyrite (5-8%) from 48.8 - 54.9 and 73.2 - 85.3.

Hole: PDH 84-3
Length: 73.2 m
Grid Location: 1200 S 130 E

<u>Interval (m)</u>	<u>Rock</u>	<u>Description</u>
0 - 22.9	Overburden	
22.9 - 73.2	Quartzite	Fine-grained, weak to moderately phyllitic rock, consisting of: quartz (70-90%), biotite (5-10%), muscovite (5-10%), chlorite (2-5%). <u>Mineralization:</u> Pyrite-disseminated throughout quartz fragments, within veins, occurs in cubic aggregates (5-10%); --pervasive oxidation of pyrite within intervals: 22.9 - 33.5; 60.9 - 67.1; --molybdenite - (trace), occurs from 22.9 - 27.4.

Hole: PDH 84-4
Length: 91.4 m
Grid Location: 1000 S 150 W

<u>Interval (m)</u>	<u>Rock</u>	<u>Description</u>
0 - 22.9	Overburden	
22.9 - 61.0	Quartzite	Fine-grained, weakly phyllitic rock consisting of: quartz (80-95%), biotite (5-10%), muscovite (5-10%), chlorite (2-3%), magnetite (trace). <u>Mineralization:</u> Pyrite as large cubic aggregates, disseminated throughout quartz fragments (2-6%). Molybdenite - veins, small clots (<1%) Sphalerite(?) - botryoidal, in veins (<1%)

Hole: PDH 84-4
Length: 91.4 m
Grid Location: 1000 S 150 W

<u>Interval (m)</u>	<u>Rock</u>	<u>Description</u>
61.0 - 91.4	Skarn	Fine-grained rock consisting of quartz (50-60%), biotite (10-15%), muscovite (10-20%), amphibole-hornblende? (5-10%), pyroxene? (3-6%), chlorite (5-10%), garnet (trace) <u>Mineralization:</u> Pyrite - small aggregates, disseminated (2-4%) Sphalerite? - in veins (2-3%) Molybdenite - trace

APPENDIX I
1984 ANALYTICAL RESULTS
BAKER CLAIMS

BAKER CREEK

JOB NO 24-0323R
REPORT DATE 25 JUL 1984

LAB NO	FIELD NUMBER	DRILL INTERVAL FROM (METRES) TO		Mo PPM	Pb PPM	Zn PPM	AU PPB	HT AU GRAM	Ag PPH	H PPH
R8415095	PH84-1	25.0	40.0	3						9
R8415096	PH84-1	40.0	50.0	2						10
R8415097	PH84-1	50.0	60.0	3						8
R8415098	PH84-1	60.0	70.0	2						10
R8415099	PH84-1	70.0	80.0	5						7
R8415100	PH84-1	80.0	90.0	3						12
R8415101	PH84-1	90.0	100.0	2						16
R8415102	PH84-1	100.0	110.0	2						20
R8415103	PH84-1	110.0	120.0	3						12
R8415104	PH84-1	120.0	130.0	2						25
R8415105	PH84-1	130.0	140.0	3						15
R8415106	PH84-1	140.0	150.0	2						20
R8415107	PH84-1	150.0	160.0	3						25
R8415108	PH84-1	160.0	170.0	3						30
R8415109	PH84-1	170.0	180.0	2						40
R8415110	PH84-1	180.0	190.0	2						35
R8415111	PH84-1	190.0	200.0	3						15
R8415112	PH84-1	200.0	210.0	2						10
R8415113	PH84-1	210.0	220.0	2						15
R8415114	PH84-1	220.0	230.0	3						12
R8415115	PH84-1	230.0	240.0	2						4
R8415116	PH84-1	240.0	250.0	2						5
R8415117	PH84-1	250.0	260.0	2						6
R8415118	PH84-1	260.0	270.0	2						17
R8415119	PH84-1	270.0	280.0	2						10
R8415120	PH84-1	280.0	290.0	2						9
R8415121	PH84-1	290.0	300.0	2						9
R8415122	PH84-2	53.0	70.0	2						35
R8415123	PH84-2	70.0	80.0	2						45
R8415124	PH84-2	80.0	90.0	2						90
R8415125	PH84-2	90.0	100.0	2						110
R8415126	PH84-2	100.0	110.0	10						80
R8415127	PH84-2	110.0	120.0	8						18
R8415128	PH84-2	120.0	130.0	7						80
R8415129	PH84-2	130.0	140.0	4						30
R8415130	PH84-2	140.0	150.0	3						40
R8415131	PH84-2	150.0	160.0	10						80
R8415132	PH84-2	160.0	170.0	8						100
R8415133	PH84-2	170.0	180.0	7						75
R8415134	PH84-2	180.0	190.0	9						20
R8415135	PH84-2	190.0	200.0	49						400
R8415136	PH84-2	200.0	210.0	211						200
R8415137	PH84-2	210.0	220.0	19						300
R8415138	PH84-2	220.0	230.0	15						150
R8415139	PH84-2	230.0	240.0	43						60
R8415140	PH84-2	240.0	250.0	256						300
R8415141	PH84-2	250.0	260.0	74						300
R8415142	PH84-2	260.0	270.0	18						500
R8415143	PH84-2	270.0	280.0	11						300
R8415144	PH84-3	75.0	90.0	23						100
R8415145	PH84-3	90.0	100.0	9						35

LAB NO	FIELD NUMBER	DRILL INTERVAL FROM (METRES) TO		Mo PPM	Pb PPM	Zn PPM	Au PPB	Ht Au GRAM	Ag PPM	M PPM
R0415146	PH04-3	100.0	110.0	9						30
R0415147	PH04-3	110.0	120.0	19						35
R0415148	PH04-3	120.0	130.0	16						15
R0415149	PH04-3	130.0	140.0	7						20
R0415150	PH04-3	140.0	150.0	4						15
R0415151	PH04-3	150.0	160.0	16						60
R0415152	PH04-3	160.0	170.0	5						35
R0415153	PH04-3	170.0	180.0	5						30
R0415154	PH04-3	180.0	190.0	26						25
R0415155	PH04-3	190.0	200.0	8						15
R0415156	PH04-3	200.0	210.0	13						30
R0415157	PH04-3	210.0	220.0	22						25
R0415158	PH04-3	220.0	230.0	28						12
R0415159	PH04-3	230.0	240.0	11						22
R0415160	PH04-4	75.0	90.0	6	222	107	<10	5	<.4	25
R0415161	PH04-4	90.0	100.0	184	132	242	<10	5	2.3	40
R0415162	PH04-4	100.0	110.0	96	277	148	<10	5	1.2	35
R0415163	PH04-4	110.0	120.0	71	229	103	<10	5	.9	40
R0415164	PH04-4	120.0	130.0	37	126	89	<10	5	.4	30
R0415165	PH04-4	130.0	140.0	38	95	91	<10	5	.4	15
R0415166	PH04-4	140.0	150.0	36	112	109	<10	5	.5	20
R0415167	PH04-4	150.0	160.0	20	110	63	<10	5	<.4	15
R0415168	PH04-4	160.0	170.0	17	103	83	<10	5	<.4	18
R0415169	PH04-4	170.0	180.0	24	88	76	<10	5	<.4	20
R0415170	PH04-4	180.0	190.0	25	98	174	<10	5	.5	200
R0415171	PH04-4	190.0	200.0	11	85	197	<10	5	<.4	200
R0415172	PH04-4	200.0	210.0	12	59	194	<10	5	<.4	150
R0415173	PH04-4	210.0	220.0	16	103	91	<10	5	<.4	125
R0415174	PH04-4	220.0	230.0	22	83	85	<10	5	<.4	80
R0415175	PH04-4	230.0	240.0	17	71	78	<10	5	<.4	60
R0415176	PH04-4	240.0	250.0	81	65	85	<10	5	<.4	50
R0415177	PH04-4	250.0	260.0	37	45	59	<10	5	<.4	100
R0415178	PH04-4	260.0	270.0	17	56	67	<10	5	<.4	150
R0415179	PH04-4	270.0	280.0	34	53	100	<10	5	<.4	125
R0415180	PH04-4	280.0	290.0	18	65	73	<10	5	.4	60
R0415181	PH04-4	290.0	300.0	13	43	87	<10	5	<.4	25

J=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED
IF REQUESTED ANALYSES ARE NOT SHOWN (RESULTS ARE TO FOLLOW)

ANALYTICAL METHODS

Mo HNO₃ - HClO₄ DECOMPOSITION / AAS
 Pb AQUA REGIA DECOMPOSITION / AAS
 Zn AQUA REGIA DECOMPOSITION / AAS
 Au AQUA REGIA DECOMPOSITION / SOLVENT EXTRACTION / AAS
 Ht Au THE WEIGHT OF SAMPLE TAKEN TO ANALYSE FOR GOLD (GROCHEN)
 Ag AQUA REGIA DECOMPOSITION / AAS
 M PYROSULPHATE FUSION / COLORIMETRIC

APPENDIX II

STATEMENT OF EXPENDITURES FOR THE
1984 PERCUSSION DRILLING AND ROADBUILDING PROGRAM
ON BAKER #1 AND BAKER FR. CLAIMS

Salaries

R. Wright	July 8-18	8 days @ \$203.28	1,626.24
G. Allen	July 9-14	66 hours @ \$8.00/hr.	528.00
P. Nieweglowski	July 17-18	2 days @ \$129.36	258.72
F.J. Ferguson	July 11-15	5 days @ \$171.60	858.00

Roadbuilding - Fiorentino Bros. Contracting Ltd., Cranbrook, B.C.

July 9-10, 1984

Mobilization			
Roadbuilding	hrs. @ \$87.50		2,621.50

Percussion Drilling - Al Miller Percussion Drilling Ltd., Barriere, B.C.

July 11-14, 1984

Mobilization		\$2,859.00	
Direct Drilling Cost	1120 ft @ \$6.50/ft.	7,280.00	10,139.00

Sample Preparation and Analyses

87 samples: Mo W Pb Zn Au Ag			1,096.35
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Transportation

Truck rental, airfares, etc.			1,000.00
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Expense Accounts

Motel and meals, 15 mandays			<u>957.00</u>
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\$19,084.81

APPENDIX III

STATEMENT OF QUALIFICATIONS

I, ROBERT LESLIE WRIGHT, of the Village of Lions Bay in the Province of British Columbia, hereby certify:

1. That I am a geologist residing at 105 Sunset Drive, Lions Bay, B.C. with a business office at 700 - 409 Granville Street, Vancouver, B.C.
2. That I graduated with a BSc in Geology from McMaster University in 1971 and with an MSc in Geology from the University of British Columbia in 1974.
3. That I have practised my profession as an exploration geologist from 1975 to the present in Canada, Mexico, Spain and South Africa.
4. That I supervised the exploration work on the Baker claims and that I am the author of this report.

Dated this day of 1984, at Vancouver, B.C.

R. L. Wright
R.L. Wright, MSc

Fiorentino Bros. Contracting Ltd.

RLW

ROAD BUILDING
D CLEARING
LOGGING

2401 Cranbrook Street N.

CRANBROOK, B.C.

Telephone 426-7281

EQUIPMENT RENTALS & SALES

INVOICE NO.

No 5496

Customer COMINGO LTD. Date July 19, 1984
409 Granville St. 7th Floor, Project No. _____
Vancouver, B.C. Location Badding Creek
 Ship Via Attn: Bob Wright Unit No. 79
 Order No. _____ Serial No. _____ Machine Model 77G

S.S. Tax No. _____ Fed. Tax No. _____ L.C. Log. Const. Mining

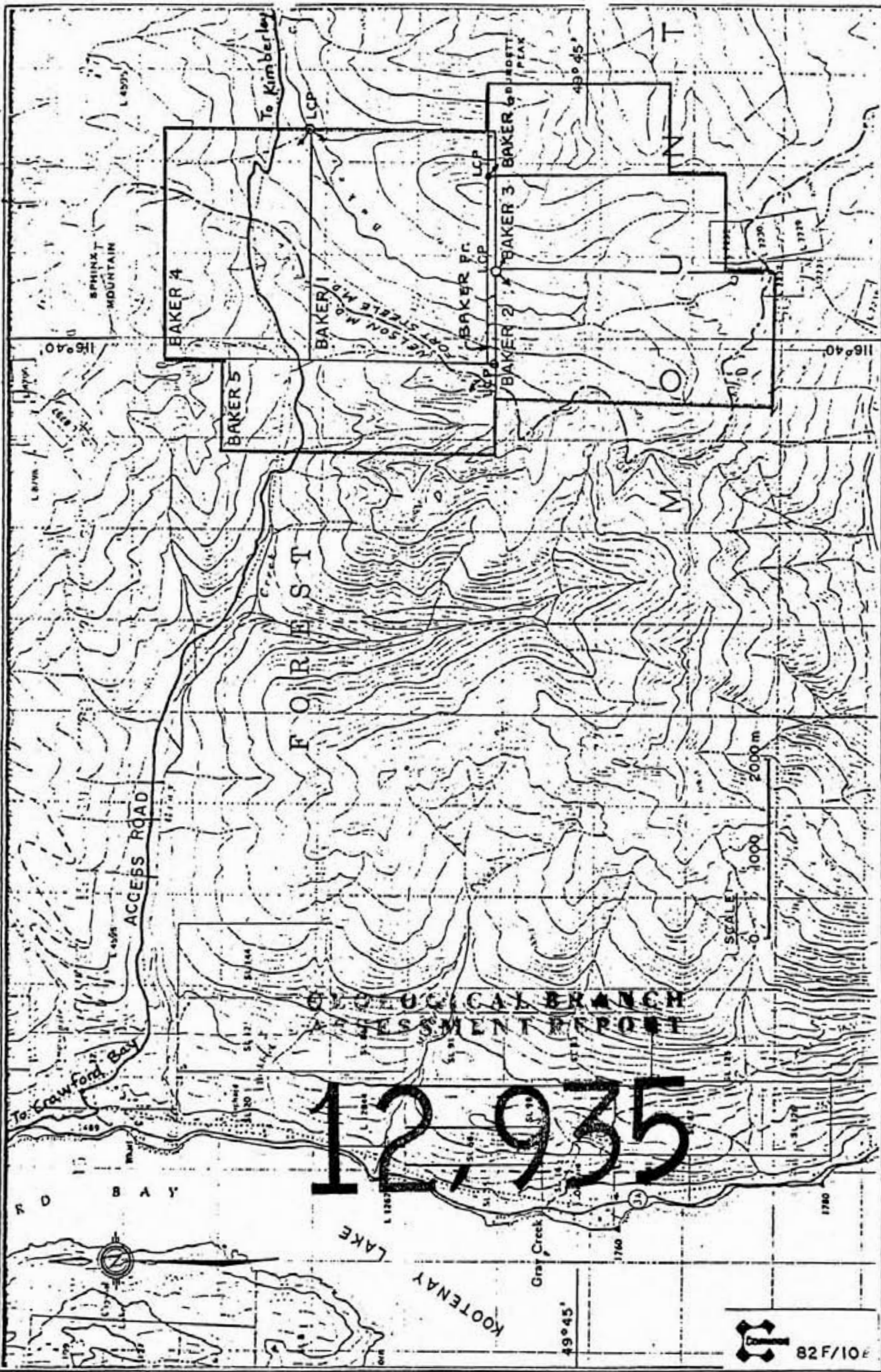
DESCRIPTION	Fed. Tax No.	L.C.	Log.	Const.	Mining	AMOUNT	CODE
P.O. # RLW 84 - 8							
Fixing drill site and road							
Baker Creek						\$2621.50	
R.L. Wright							
VEX-114-830-W085							
20 hrs. @ 87.50 per hr.						1,750.00	
4 hrs. @ 21.00 per hr. Operators O.T. hours						84.00	
HAULING CHARGES						77.50	

Sub. 2,621.50
 Fed. Tax _____
 Prov. Tax _____
 TOTAL 2,621.50

Terms: Invoice payable 15th of the following month. Interest at 18% per annum charged on all overdue accounts unless previous arrangements approved.

CHARGE CASH INTERNAL

ROCKY MOUNTAIN PRINTING - CRANBROOK CUSTOMER COPY INVOICE

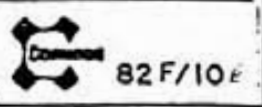


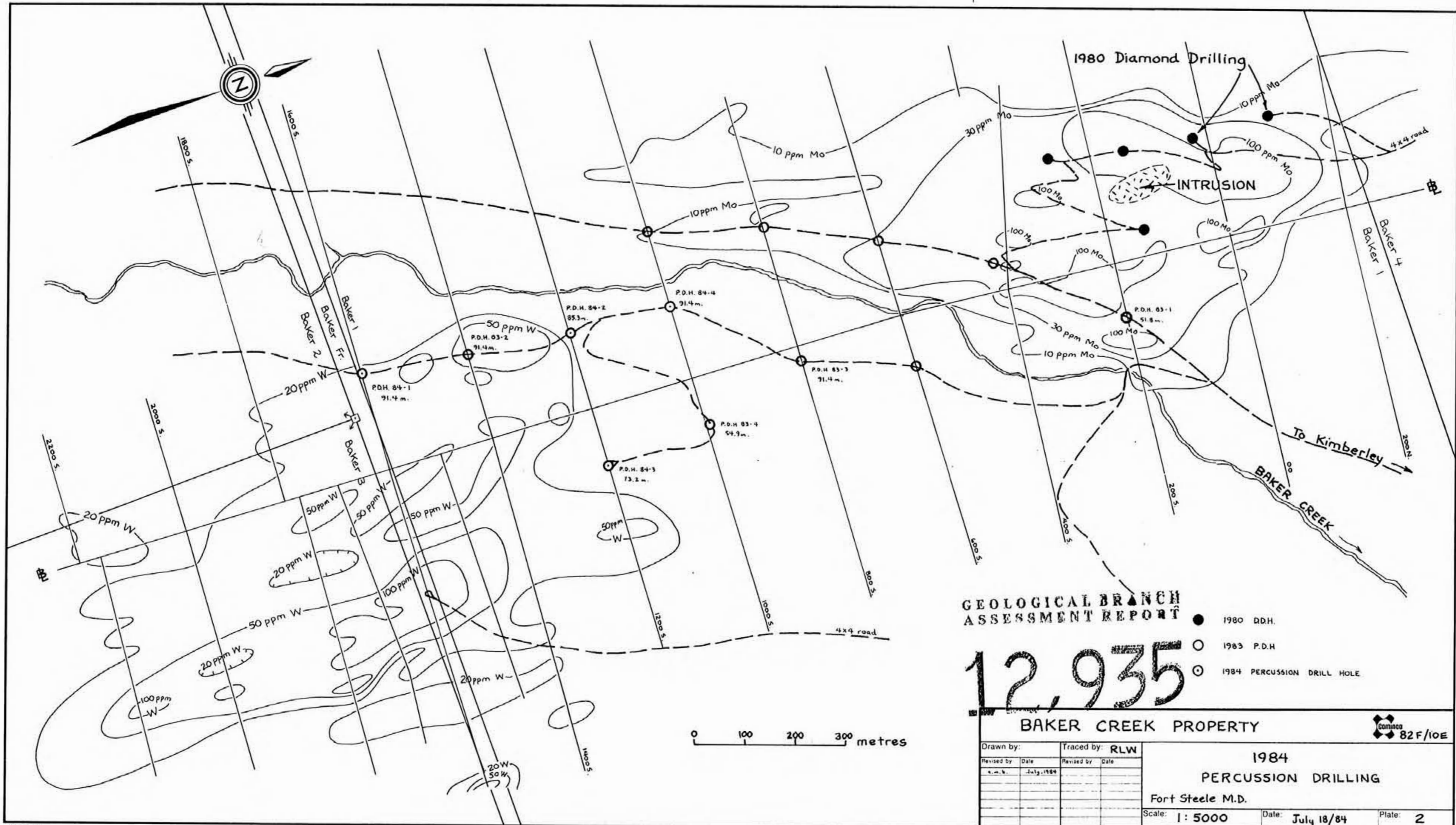
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,935

Drawn by:	<i>P.M.</i>	Traced by:	
Revised by:	Date	Revised by:	Date
RLW	Oct 190		

LOCATION MAP - BAKER CLAIMS





**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

- 1980 DDH.
- 1983 P.D.H.
- ⊙ 1984 PERCUSSION DRILL HOLE

12,935

BAKER CREEK PROPERTY



Drawn by:	Traced by: RLW
Revised by: Date	Revised by: Date
e.m.b. July 1984	

**1984
PERCUSSION DRILLING**
Fort Steele M.D.
Scale: 1: 5000 Date: July 18/84 Plate: 2